

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/05375

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> C12N15/09, 9/04, 1/15, 1/19, 1/21, 5/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> C12N15/09, 9/04, 1/15, 1/19, 1/21, 5/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

SwissProt/PIR/GeneSeq  
 GenBank/EMBL/DDBJ/GeneSeq  
 BIOSIS/WPI (DIALOG)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SODE, K. et al., A novel thermostable glucose dehydrogenase varying temperature properties by altering its quaternary structures Enzyme Microb.Technol., 1996, 19(2), pages 82 to 85	1-11
P, X	WO 02/36779 A1 (Koji SODE), 10 May, 2002 (10.05.02), Full text (Family: none)	1-11
A	YAMAZAKI, T. et al., Subunit analyses of a novel thermostable glucose dehydrogenase showing different temperature properties according to its quaternary structure Appl.Biochem.Biotechnol., 1999, 77-79, pages 325 to 335	1-11

☒ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

 Date of the actual completion of the international search  
 25 June, 2003 (25.06.03)

 Date of mailing of the international search report  
 15 July, 2003 (15.07.03)

 Name and mailing address of the ISA/  
 Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	YAMAZAKI, T. et al., Increased thermal stability of glucose dehydrogenase by cross-linking chemical modification Biotechnol.lett., 1999, 21(3), pages 199 to 202	1-11
P,A	INOSE, K. et al., Cloning and expression of the gene encoding catalytic subunit of thermostable glucose dehydrogenase from Burkholderia cepacia in Escherichia coli Biochim.Biophys.Acta., 2003 February, 1645(2), p.133-8	1-11